

2

SunX Analytical  
M. Holloway Hemp Potency Study

Harvest date	7/2/2019			Moisture	Bone dry	
	CBD	CBD-A	CBD Potency	THC	THC-A	THC Potency
Gen 1 - Top 1	0.29	2.29	2.30	0.01	0.11	0.11
Gen 1 - Top 2	0.33	2.97	2.93	0.04	0.08	0.11
Gen 1 - Top 3	0.37	2.40	2.47	0.02	0.08	0.09
Gen 2 - Top 1	0.34	2.23	2.30	0.01	0.09	0.09

Harvest date	8/7/2019			Moisture	49%	
	CBD %	CBD-A %	CBD Potency	THC %	THC-A %	THC Potency
Gen 1 - Top 2	0.06	2.18	1.97	0.00	0.08	0.07
Gen 1 - Top 4	0.00	2.48	2.17	0.00	0.05	0.04
Gen 1 - Top 1	0.00	3.15	2.76	0.00	0.14	0.12
Gen 1 - Top 3	0.00	2.08	1.82	0.00	0.12	0.11

Harvest date	9/9/2019			Moisture	15%	
	CBD %	CBD-A %	CBD Potency	d9 THC %	THC-A %	THC Potency
Hemp Bud 0909	0.31	14.06	12.64	0.05	0.64	0.60
CBD Oil 1800 - 2oz	29.4mg/mL = ~ 1800 g per 60 mL bottle (very close to claim)					0.13
Hemp CBD 600	20.4 mg/mL = ~612g per 30 mL bottle( right on the money)					0.11

Harvest date	9/27/2019			Moisture	12%	
	CBD %	CBD-A %	CBD Potency	d9 THC %	THC-A %	THC Potency
UMD 50 (1-x)	1.64	13.67	13.63	0.17	0.40	0.52
UMD 150 (2-x)	2.42	13.65	14.39	0.23	0.34	0.53
UMD 200 (3-x)	1.36	12.72	12.52	0.18	0.35	0.49
UMD 250 (4-x)	2.52	16.50	16.99	0.26	0.45	0.66
MD State Certification	1.97	12.50	12.93	0.20	0.38	0.53

Above is testing done by the University of Maryland. They pulled 4 different plants down in our field. Each plant had different levels of CBD ranging from 12.52 to 16.99 % as seen above.



## &lt;Sample Information&gt;

System Administrator

Sample Name : MHolloway MD Certification - 190926

Sample ID : 0929-169

Data Filename : BR190929\_9292019\_011.lcd

Method Filename : QC Concentrate -190702 Mod.lcm

Batch Filename : BR190929.lcb

Vial # : 1-69

Sample Type : Unknown

Injection Volume : 10 uL

Sample Amount : 2948 mg

Extraction Vol. : mL

Dilution Factor :

Date Acquired : 9/29/2019 4:29:56 PM

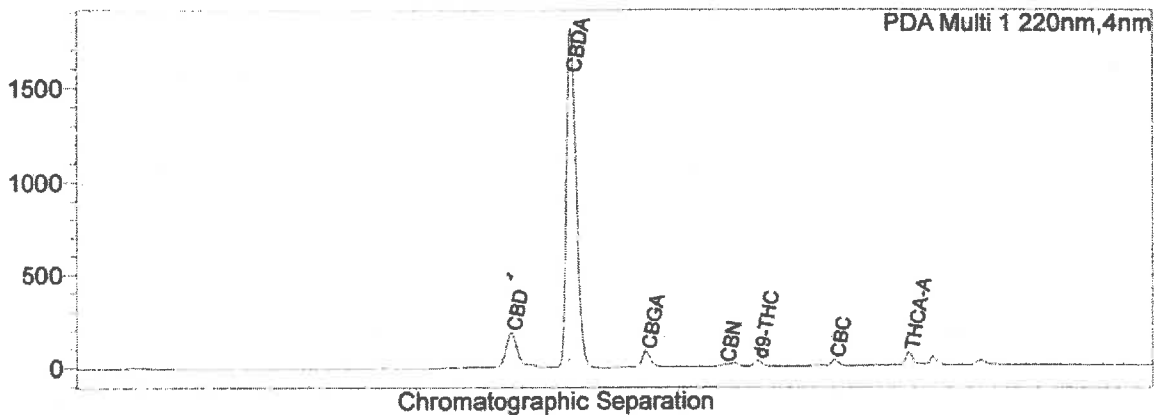
Acquired by : System Administrator

Date Processed : 9/30/2019 4:57:53 PM

Processed by : System Administrator

## &lt;Chromatogram&gt;

mAU



## &lt;Quantitative Results&gt;

PDA

ID#	Name	Dry weight %	Conc.	Unit
1	CBDV	0.00	—	mg/g
2	THCV	0.00	—	mg/g
3	CBD	1.97	19.698	mg/g
4	CBG	0.00	—	mg/g
5	CBDA	12.51	125.057	mg/g
6	CBGA	0.46	4.581	mg/g
7	CBN	0.03	0.315	mg/g
8	d9-THC	0.21	2.081	mg/g
9	d8-THC	0.00	—	mg/g
10	CBC	0.16	1.606	mg/g
11	THCA-A	0.38	3.771	mg/g

Total d9 THC	0.21%
Total CBD	12.94%

Note: Hemp field sample provided by Baywater Farms, LLC has been found to be compliant with the State of MD limit of 0.3% d9 THC

Signed:  
Barry F. Pritchard

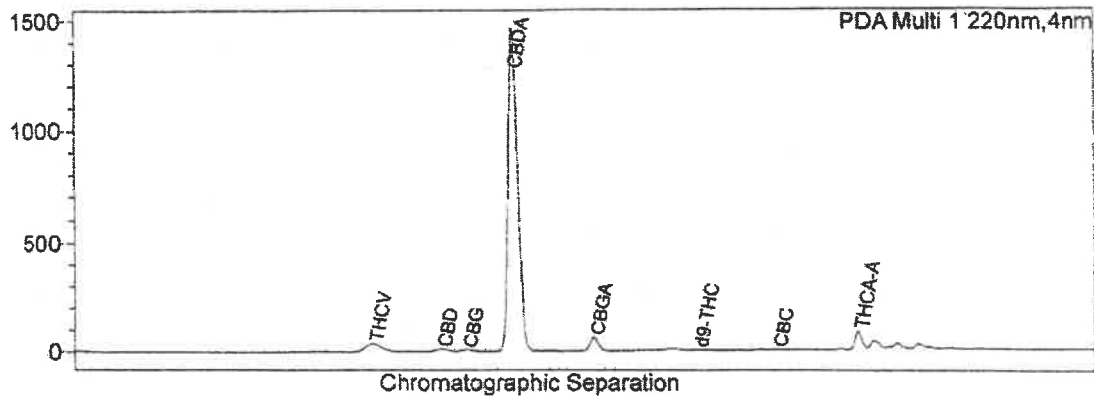
**Cannabinoid Profile Certificate****9/11/2019****<Sample Information>**

System Administrator  
 Sample Name : AH - Smokeable-2 190909  
 Sample ID : 0910-148  
 Data Filename : BFR190704\_9102019\_031.lcd  
 Method Filename : QC Concentrate -190702 Mod.lcm  
 Batch Filename : BFR190704.lcb  
 Vial # : 1-48  
 Injection Volume : 10 uL  
 Sample Amount : 524 mg  
 Extraction Vol. : mL  
 Dilution Factor :  
 Date Acquired : 9/11/2019 12:53:45 AM  
 Date Processed : 9/11/2019 1:09:47 AM

Sample Type : Unknown  
 Acquired by : System Administrator  
 Processed by : System Administrator

**<Chromatogram>**

mAU

**<Quantitative Results>**

PDA				
ID#	Name	Dry weight %	Conc.	Unit
1	CBDV	0.00	-	mg/g
2	THCV	0.83	8.310	mg/g
3	CBD	0.18	1.819	mg/g
4	CBG	0.07	0.736	mg/g
5	CBDA	14.06	140.604	mg/g
6	CBGA	0.51	5.101	mg/g
7	CBN	0.00	-	mg/g
8	d9-THC	0.03	0.259	mg/g
9	d8-THC	0.00	-	mg/g
10	CBC	0.02	0.221	mg/g
11	THCA-A	0.61	6.108	mg/g

Total CBD	12.51%
-----------	--------

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 38284  
Order Name: Flower  
Batch#: 091919  
Received: 10/09/2019  
Completed: 10/14/2019



### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 10/10/2019 20:11:02

UPLOADED: 10/11/2019 21:52:53

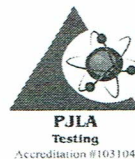
LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.005	0.001	IMAZALIL	0.100	N/D	0.005	0.001
ACEPHATE	0.100	N/D	0.001	0.001	IMIDACLOPRID	5.000	N/D	0.005	0.001
ACEQUINOCYL	0.100	N/D	0.001	0.001	KRESOXIM-METHYL	0.100	N/D	0.010	0.005
ACETAMIPRID	0.100	N/D	0.005	0.001	MALATHION	0.500	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001	METALAXYL	2.000	N/D	0.001	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001	METHIOCARB	0.100	N/D	0.005	0.001
BIFENAZATE	0.100	N/D	0.005	0.001	METHOMYL	1.000	N/D	0.001	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
BOSCALID	0.100	N/D	0.005	0.001	MYCLOBUTANIL	0.100	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001	NALED	0.100	N/D	0.005	0.001
CARBOFURAN	0.100	N/D	0.001	0.001	OXAMYL	0.500	N/D	0.001	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.005	0.005	PACLOBUTRAZOL	0.100	N/D	0.005	0.001
CHLORPYRIFOS	0.100	N/D	0.001	0.001	PERMETHRINS	0.500	N/D	0.005	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001	PHOSMET	0.100	N/D	0.005	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001	PIPERONYL	3.000	N/D	0.001	0.001
DIAZANON	0.100	N/D	0.001	0.001	BUTOXIDE				
DICHLORVOS	0.100	N/D	0.005	0.001	PRALLETHRIN	0.100	N/D	0.005	0.005
DIMETHOATE	0.100	N/D	0.001	0.001	PROPICONAZOLE	0.100	N/D	0.010	0.005
DIMETHOMORPH	2.000	N/D	0.005	0.001	PROPOXUR	0.100	N/D	0.001	0.001
ETHOPROPHOS	0.100	N/D	0.001	0.001	PYRETHRINS				
ETOFENPROX	0.100	N/D	0.001	0.001	(PYRETHRIN I)	0.500	N/D	0.005	0.005
ETOXAZOLE	0.100	N/D	0.010	0.005	PYRIDABEN	0.100	N/D	0.005	0.001
FENHEXAMID	0.100	N/D	0.005	0.001	SPINETORAM	0.100	N/D	0.001	0.001
FENOXYCARB	0.100	N/D	0.005	0.001	SPINOSAD	0.100	N/D	0.001	0.001
FENPYROXIMATE	0.100	N/D	0.001	0.001	SPIROMESIFEN	0.100	N/D	0.005	0.001
FIPRONIL	0.100	N/D	0.003	0.001	SPIROTETRAMAT	0.100	N/D	0.001	0.001
FLONICAMID	0.100	N/D	0.025	0.010	SPIROXAMINE	0.100	N/D	0.001	0.001
FLUDIOXONIL	0.100	N/D	0.003	0.001	TEBUCONAZOLE	0.100	N/D	0.005	0.001
HEXYTHIAZOX	0.100	N/D	0.005	0.001	THIACLOPRID	0.100	N/D	0.001	0.001
					THIAMETHOXAM	5.000	N/D	0.001	0.001
					TRIFLOXYSTROBIN	0.100	N/D	0.001	0.001

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level



4001 SW 47th Avenue Suite 208  
Davie, FL 33314  
1-833-TEST-CBD  
info@greenscientificlabs.com



*Dr. Andrew Hall*  
Dr. Andrew Hall, Ph.D., CSO & Lab Director

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.





# CERTIFICATE OF ANALYSIS

Certificate #: 1376-1Customer: Baywater Farms

Page 1 of 3

Package Metric ID#: n/aSample Metric ID#: n/aStrain Name: BiomassSample Date: 9/30/2019 Upload Date: 10/8/2019

Foreign Matter Inspection:

## TERPENES

Terpene	Content (wt/wt) %
$\alpha$ -Pinene	< LOQ
$\beta$ -Pinene	< LOD
$\beta$ -Myrcene	0.036
Limonene	< LOQ
Terpinolene	< LOD
Ocimene	< LOD
Linalool	< LOD
$\beta$ -Caryophyllene	0.201
Humulene	0.069
$\beta$ -Eudesmol	ND
Caryophyllene oxide	< LOD
Nerolidol	0.030
Camphene	< LOD
$\Delta^3$ -Carene	ND
$\alpha$ -Terpinene	< LOD
Paracymene	ND
Eucalyptol	0.006
$\Gamma$ -Terpinolene	< LOD
Isopulegol	< LOD
Geraniol	< LOD
Valencene	0.018
(-)-Guaiol	0.020
(-)- $\alpha$ -Bisabolol	0.033
Total:	0.412

## CANNABINOID CONTENT

Cannabinoid	Content (wt/wt %)
$\Delta^9$ -THC	0.07
THCA	0.29
CBD	0.48
CBDA	8.32
THCVA	ND
THCV	ND
CBN	< LOD
CBG	ND
$\Delta^8$ -THC	ND
CBGA	0.12
CBDV	ND
CBDVA	0.09
CBL	ND
CBC	0.04
CBNA	ND
CBCA	< LOD
Total:	9.42

Certificate #: 1376-1

Page 2 of 3

PESTICIDES	
Analyte	PPM
Acetamiprid	ND
Abamectin	ND
Aldicarb	ND
Ancymidol	ND
Azoxystrobin	ND
Bifenazate	ND
Bifenthrin	ND
Boscalid	ND
Carbaryl	ND
Carbofuran	ND
Chlorantraniliprole	ND
Chlorpyrifos	ND
Clofentezine	ND
Cyfluthrin	ND
Daminozide (Alar)	ND
DDVP (Dichlorvos)	ND
Diazinon	ND
Dimethoate	ND
Ethephon	ND
Etoxazole	ND
Fenpyroximate	ND
Fipronil	ND
Flonicamid	ND
Fludioxonil	ND

PESTICIDES	
Analyte	PPM
Flurprimidol	ND
Hexythiazox	ND
Imazalil	ND
Imidacloprid	ND
Kresoxim-methyl	ND
Malathion	ND
Metalaxyl	ND
Methiocarb	ND
Methomyl	ND
Myclobutanil	ND
Naled	ND
Oxamyl	ND
Paclobutrazol	ND
Permethrin (cis+trans)	ND
Phosmet	ND
Piperonyl butoxide	ND
Propicanazole	ND
Pyrethrins	ND
Spinosad	ND
Spiromesifen	ND
Spirotetramat	ND
Thiacloprid	ND
Thiamethoxam	ND
Trifloxystrobin	ND

HEAVY METALS		
Heavy Metal	PPM	State Levels
Lead (Pb)	< LOQ	< 1.0 PPM
Arsenic (As)	< LOQ	< 0.4 PPM
Mercury (Hg)	< LOD	< 0.2 PPM
Cadmium (Cd)	0.143	< 0.4 PPM
Chromium (Cr)	0.217	< 0.6 PPM
Barium (Ba)	25.895	< 60.0 PPM
Silver (Ag)	< LOD	< 1.4 PPM
Selenium (Se)	ND	< 26.0 PPM

RESIDUAL SOLVENTS		
Solvent	PPM	State Levels
Heptanes	ND	< 5000
Hexanes	ND	< 290
Butanes	ND	< 5000
Benzene	ND	< 2
Toluene	ND	< 890
Total Xylenes	ND	< 2170
Propanes	ND	< 5000
Ethanol	ND	< 5000



Certificate #: 1376-1

Page 3 of 3

MICROBIOLOGICAL		
Microbiological Impurity	CFU/g	State Levels
Total Aerobic Microbial Count (TAMC)	8,511	< 100,000
Total Yeast and Mold Count (TYMC)	0	< 10,000
E. coli	0	< 100
Salmonella Sp. (Present/Absent)	Absent	Absent

WATER		
Water Activity (Aw)	n/a	(< 0.65)
Moisture Content	11.44	%
MYCOTOXIN		
Mycotoxin	PPB	State Levels
Aflatoxins B1, B2, G1, G2	ND	< 20
Ochratoxin A	ND	< 20



Scott Robertson, M.Sc.  
Laboratory Director



1131 Benfield Blvd. Suite P, Millersville, MD 21108  
410-980-9833 | www.atlantictestlabs.com

#### Terms & Definitions:

ND = Not Detected  
LOD = Limit of Detection  
LOQ = Limit of Quantitation

**botanacor**

## CERTIFICATE OF ANALYSIS

prepared for: CANNA-VENTURES OF WV

200 HELIPORT LOOP RD

BRIDGEPORT, WV 26330

RFSO

Batch ID:	RFSO-001	Test ID:	3937711.002
Reported:	13-Sep-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

## PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	52 - 2412	ND*	Malathion	52 - 2412	ND*
Acetamiprid	52 - 2412	ND*	Metalaxyl	313 - 2412	ND*
Avermectin	313 - 2412	ND*	Methiocarb	52 - 2412	ND*
Azoxystrobin	52 - 2412	ND*	Methomyl	52 - 2412	ND*
Bifenazate	52 - 2412	ND*	MGK 264 1	52 - 2412	ND*
Boscalid	313 - 2412	ND*	MGK 264 2	313 - 2412	ND*
Carbaryl	52 - 2412	ND*	Myclobutanil	313 - 2412	ND*
Carbofuran	52 - 2412	ND*	Naled	313 - 2412	N/A
Chlorantraniliprole	52 - 2412	N/A	Oxamyl	52 - 2412	ND*
Chlorpyrifos	313 - 2412	ND*	Paclobutrazol	52 - 2412	ND*
Clofentezine	52 - 2412	ND*	Permethrin	313 - 2412	ND*
Diazinon	52 - 2412	ND*	Phosmet	52 - 2412	ND*
Dichlorvos	313 - 2412	ND*	Propos	313 - 2412	ND*
Dimethoate	52 - 2412	ND*	Propoxur	313 - 2412	ND*
E-Fenpyroximate	313 - 2412	ND*	Pyridaben	313 - 2412	ND*
Etofenprox	313 - 2412	ND*	Spinosad A	52 - 2412	ND*
Etoxazole	313 - 2412	ND*	Spinosad D	313 - 2412	ND*
Fenoxycarb	52 - 2412	ND*	Spiromesifen	52 - 2412	ND*
Fipronil	313 - 2412	N/A	Spirotetramat	313 - 2412	ND*
Flonicamid	52 - 2412	ND*	Spiroxamine 1	52 - 2412	ND*
Fludioxonil	313 - 2412	ND*	Spiroxamine 2	52 - 2412	ND*
Hexythiazox	313 - 2412	ND*	Tebuconazole	52 - 2412	ND*
Imazalil	313 - 2412	ND*	Thiacloprid	52 - 2412	ND*
Imidacloprid	52 - 2412	ND*	Thiamethoxam	52 - 2412	ND*
Kresoxim-methyl	52 - 2412	ND*	Trifloxystrobin	313 - 2412	ND*

\* ND = None Detected (Defined by Dynamic Range of the method)

N/A

## FINAL APPROVAL

*Samantha Smith*  
 Sam Smith  
 13-Sep-2019  
 2:47 PM  
 PREPARED BY / DATE

*Greg Zimpfer*  
 Greg Zimpfer  
 13-Sep-2019  
 2:57 PM  
 APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.